



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,061	11/19/2003	Yuh-Shyang Wu	SPCP0006USA	1060
27765	7590	06/15/2006	EXAMINER	
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116			NATNAEL, PAULOS M	
			ART UNIT	PAPER NUMBER
			2622	

DATE MAILED: 06/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Applicati n N . 10/707,061	Applicant(s) WU ET AL.	
	Examiner Paulos M. Natnael	Art Unit 2622	

-- The MAILING DATE f this communicati n appears on th c ver sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-11, 13-16 is/are rejected.
- 7) ☒ Claim(s) 12 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims **1-7,9-11** are rejected under 35 U.S.C. 102(e) as being anticipated by Lin et al. U.S. Pat. No. 2005/0007500 A1.

Considering claims **1, 4-7**, Lin et al. (hereinafter, "Lin") discloses a liquid crystal display with changeable modules comprising an LCD for use in a particular region comprises an electronics board within a housing of the LCD, at least one access slot to the electronics board from outside of the housing; and an at least one insertable module which mates with the electronics board through the at least one access slot, wherein the at least one insertable module is configured for a particular region and comprises at least one of a tuner, an extended audio and video connector, and a power supply. Lin disclose in fig.2 TV tuner 30 (which is a changeable tuner 30, that is separate from the motherboard of the LCD system, and is present as an insertable module and connectable to the motherboard of the LCD. See [0013]-[0015] and [0019]. The tuner module 30 extracts the audio portion of the TV signal and delivers said audio signal to the sound processor

1 in the LCD or external to the LCD), Scaler 7, display Panel 9, Video Decoder 4 receiving multiple video inputs including RGB signals from the V-chip, CVBS1 and CVBS2, Y/C or (S-video), and a YPbPr. Lin does not specifically disclose a demodulator; however, since the function of a demodulator is to recover the information content from the carrier signal, Lin uses the tuner module to perform the function of the demodulator. In this case the tuner module extracts the audio portion of the television signal. Therefore, the demodulator is inherently disclosed in the system of Lin.

Considering claims **2 and 3**, Lin teaches receiving TV signals. See page 2, [0033] and [0034], [0038].

Considering claims **9-10**, Lin discloses the Video decoder (fig.2) outputting YUV, RGB, signal to the scaler which in turn can output the same to the display panel 9.

As to claim **11**, see rejection of claim 1.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time th

Art Unit: 2622

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims **1-3,6-8,13-16** are rejected under 35 U.S.C. 103(a) as being unpatentable over Morey, U.S. Patent Application Publication 2002/0080163.

Considering claim **1**, Morey discloses an information retrieval system integrating television and other video/audio sources comprising ISP 1, A/V devices (receiving module) 2, TV 3, tuner/demodulator 4, A/V module 19, main module 18, Switching board 6 (Multiplexer), and A/V encoder (output module) 8 which receives the decoded signals and transmits the same to the TV receiver 3 via again the switching board 6. Morey does not specifically disclose a second demodulator. Morey however discloses an A/V decoder 7 which decodes the multiplexed signal from the switching board 6 (i.e., multiplexer). Therefore, it would have been obvious to the skilled in the art to implement the system accordingly, since the decoder functions as a demodulator to demodulate the already converted base band signal.

As to claims **2 and 3**, Morey does not specifically disclose NTSC or PAL. However, Morey discloses TV signals using the information retrieval system integrating television and other video/audio sources and, therefore, inherently teaches the television standards NTSC and PAL.

Considering claims **6-7**, Morey discloses VCR, DVD, or other A/V devices 2.

As to claim 8, Morey teaches remote control and CPU 12, fig.1.

Considering claim 13-15, Morey discloses Tuner/demodulators 4 and 5, fig.1; see also rejection of claims 2 and 3.

As to claim 16, Morey does not specifically discloses LCD display; however, Examiner takes official notice in that LCD displays are well known in the art and therefore it would have been obvious to the skilled in the art at the time the invention was made to modify the system of Morey by providing an LCD display so that the system of Morey becomes more efficient.

Allowable Subject Matter

5. Claim 12 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

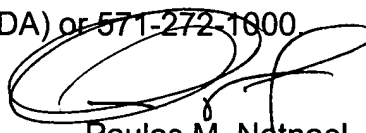
6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Liao et al., U.S. Pat. Application Publication 2004/0257305 A1 discloses plasma display with changeable modules.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paulos M. Natnael whose telephone number is (571) 272-7354. The examiner can normally be reached on 9am - 5:30pm M,W, F (7am-3:30pm T,Th).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571)272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Paulos M. Natnael
Primary Examiner
Art Unit 2622

PMN
June 9, 2006